

# drylin<sup>®</sup> linear technology – Carbon fibre

Lightweight and robust

Non-metallic

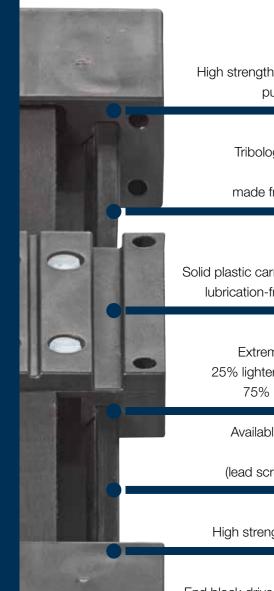
Non-magnetic

X-ray transparent

Lubrication and maintenance-free



## drylin<sup>®</sup> carbon fibre | Advantages Extremely lightweight and 100% lubrication-free



High strength carbon made in pultrusion process

> Tribologically optimised drylin<sup>®</sup> W rails made from carbon fibre

Solid plastic carriage made from lubrication-free iglidur<sup>®</sup> L250

> Extreme weight saving 25% lighter than aluminium 75% lighter than steel

Available as linear guide or with drive (lead screw/toothed belt)

High strength and resistant

End block drive shaft supported with dry operating xiros® ball bearings with balls made of glass or plastic

# **Extremely lightweight:** drylin<sup>®</sup> carbon fibre

Extremely lightweight and yet extremely strong tribologically optimised drylin® linear systems made from plastic and carbon fibre combine these properties. Whether as guide or linear axis: All systems are 100% lubrication and maintenancefree.

- Extremely lightweight
- Wear-resistant
- Tough and reliable
- Non-metallic
- Non-magnetic
- X-ray transparent

#### Typical application areas

- Aircraft interior
- Laboratory and medical technology
- Measuring technology

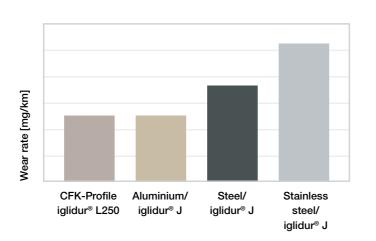
#### Available in 3–8 days

Detailed information about delivery time online.

#### Price breaks online

No minimum order value. No minimum order quantity.

Max. +60°C Min. 0°C



# drylin<sup>®</sup> carbon fibre | Product overview

Linear guides and modules made of solid plastic and carbon fibre



#### drylin® W linear guide made of carbon/solid plastic

- Extremely lightweight and strong carbon profile
- Tribologically optimised
- Solid plastic carriage made from iglidur<sup>®</sup> L250
- ▶ Page 1202



#### drylin® SAW linear module made from carbon fibre

- drylin<sup>®</sup> W profile made of carbon fibre
- Drive: Trapezoidal or high-helix lead screw
- Lightest version with carbon, solid plastic, aluminium lead screw
- Page 1204



drylin<sup>®</sup> CWM round shaft made from carbon fibre

- Very lightweight due to hollow shaft geometry
- Hollow rail for supply lines
- Surface UCU (unidirectional/cross-winding/unidirectional)
- ▶ Page 1206



#### drylin<sup>®</sup> ZLW toothed belt axis with carbon profile

- Absolutely non-metallic
- Neoprene toothed belt drive with glass fibre reinforcement
- Max. stroke length 1,000mm
- Page 1203



#### drylin® SHTP linear module with round carbon fibre shafts

- Very lightweight due to carbon fibre hollow shafts and solid plastic
- Ideal for multi-carriage solutions, also opposite
- Configurable with accessories for manual and electric adjustment
- ▶ Page 1205

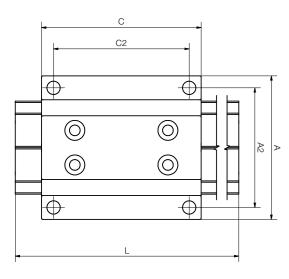
#### drylin® carbon fibre

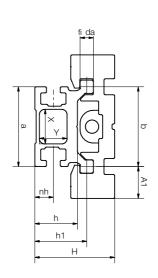
# drylin® W carbon fibre | Product range

Linear guide system - extremely lightweight and strong



G	Order key Complete solution							
Тур	Э			Dim	ensior	ns [mm]/1	Тур	
W	Κ	Ρ	C-	-06-	-30	-06		
drylin® W	Complete system	Plastic	Carbon fibre	Shaft Ø	Rail width	Carriage length		





### Technical data - guide rail made from carbon

Part No.	F max	. radial	Weight	ly	lz
	stat.	dyn.			
	[N]	[N]	[g/m]	[mm⁴]	[mm⁴]
WSPC-06-30	300	60	410	30,391	11,674

### Dimensions [mm] – guide profile made from carbon

Part No.	а	b	da -0.1	h	h1	nh	Х	Y	L
WSPC-06-30	30	30	5	16	19.5	7	13	10	3,000
Dimensions [mm]	solid plast	ic guide	carriage	e made <sup>-</sup>	from iglio	dur® poly	ymer		
Part No.	Н	ŀ	A1	Α		A2	С		C2
									01

1202 Online tools and more information ► www.igus-asean.com/drylin-carbon

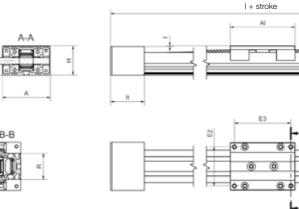


# drylin® ZLW carbon fibre | Product range

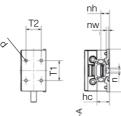
Toothed belt axis - non-metallic

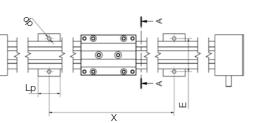


- Guide profile made from carbon
- Linear carriage made from iglidur® polymer



#### **Connection size**



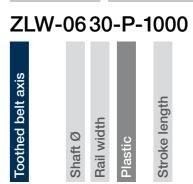


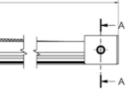
#### **Technical data**

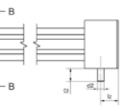
Part No.	Weight without stroke [kg]	Weight 100mm stroke [kg	I	x. stroko length [mm]	m	rans- ission ım/rev]		oth ofile	-mate		Drive bel -width [mm]	-	sion Ŋ
Basic 02 P	0.3	0.08		1,000		54	HTI	D 3M	Neopre with C		9	2	5
Dimension	is [mm]												
Part No.	-	A AI .3	н	E2 ±0.15	E3 ±0.15	I	R ±0.15	f	lt -0.3	ha	lz	12	d2 h9
ZLW-0630-1	<b>P</b> 5	4 60	31	45	51	144	30	3	42	14	20	20	8
Connectio	n size												
Part No.		Х	E ±0.2		Λ <b>Ρ</b> 1.0	Lp		dp	d		<b>T1</b> ±0.25		T2 -0.3
ZLW-0630-I	<b>&gt;</b> v	ariable	40	5	52	15		5.5	3		20		21

Part No.	Weight without stroke [kg]	Weight • 100mm stroke [kg		ax. stroke length [mm]	mi	rans- ission m/rev]		oth ofile	-mate	-	Drive bel •width [mm]	t -ten: [N	
Basic 02 P	0.3	0.08		1,000		54	HTI	D 3M	Neopre with C		9	2	5
Dimension	is [mm]												
Part No.	-	A AI 0.3	н	E2 ±0.15	E3 ±0.15	I	R ±0.15	f	lt -0.3	ha	lz	12	d2 h9
ZLW-0630-	<b>b</b> 5	4 60	31	45	51	144	30	3	42	14	20	20	8
Connectio	n size												
Part No.		X	E ±0.2		.₽ 1.0	Lp		dp	d		<b>T1</b> ±0.25		T2 -0.3
ZLW-0630-		variable	40	5	2	15		5.5	3		20		21





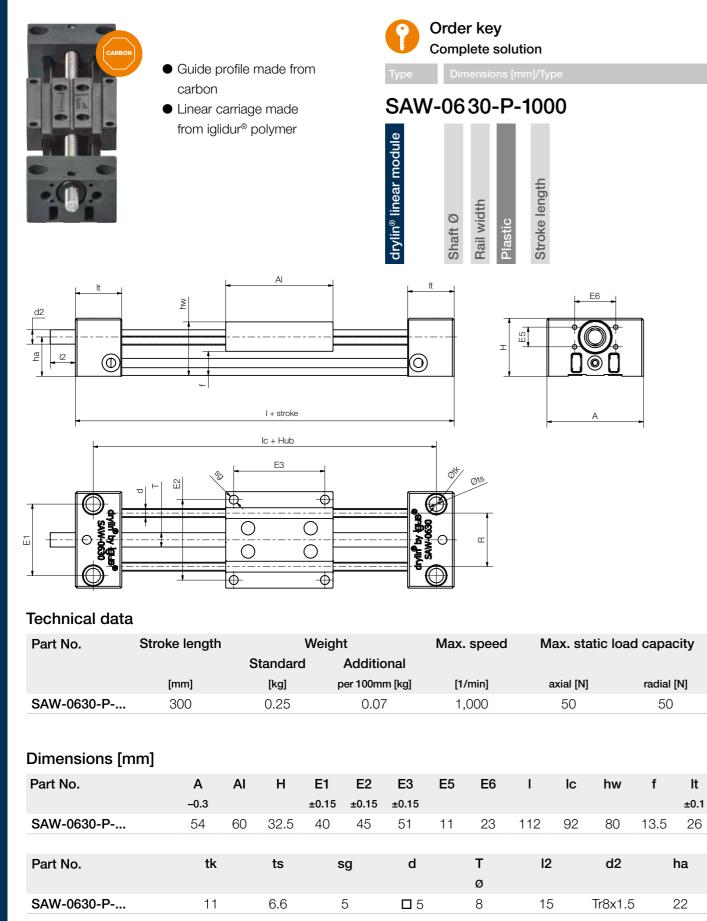




#### drylin® carbon fibre

## drylin<sup>®</sup> SAW carbon fibre | Product range

Linear module with high profile carbon fibre - lightweight and robust



#### 1204 Online tools and more information ► www.igus-asean.com/drylin-carbon

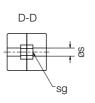
## igus

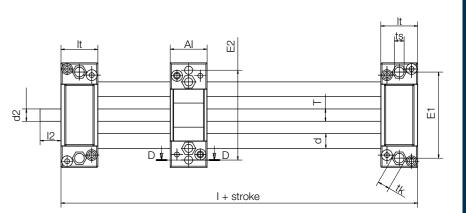
# drylin<sup>®</sup> SHTP carbon fibre | Product range

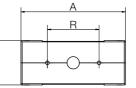
Linear module with carbon fibre hollow shafts - ideal for multi-carriage solutions

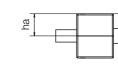


 Lead screws made from carbon Linear carriage made from iglidur® polymer









## Technical data

Part No.	Max. st	troke	Carbor	n fibre s	shaft			More i	nformation		
	leng	th	Weight	Addit	Additional [kg]						
	[mm	1]	[kg]	(per	100mm)						
SHTP-01-12-CWM	500	C	0.3	(	0.06	Drive	e nut and lii	near be	arings made	e from i	glidur® J
SHTP-02-12-CWM	500	C	0.3	(	0.06	В	learing and	nut inte	egrated into	the car	riage
Dimensions [mm]											
Part No.	Α	AI	Н	E1	E2	I	R	f	lt	tk	ts
									±0.1		+0.15
SHTP-01-12-CWM	85	30	36	70	73	90	42	2	30	10	6.0
SHTP-02-12-CWM	85	30	36	70	73	90	42	2	30	10	6.0
Part No.	S	sg	d	Т	Г	12	d2 <sup>99)</sup>	ha	Max. stat	ic load	capacity
		C							axial		radial
									[N]		[N]
SHTP-01-12-CWM	6.3	M6	12	Tr1(	Dx2	17	Tr10x2	18	100		100
SHTP-02-12-CWM	6.3	M6	12	Tr1(	Dx2	17	Tr10x2	18	100		100

<sup>99)</sup> Lead screw end unmachined (standard)

drylin® carbon fibre



Linear mo

#### Order key Complete solution

# SHTP-01-12-CWM Carbon fibre

Design

Plastic

Dimension



#### drylin® carbon fibre

# drylin<sup>®</sup> carbon fibre | Product range

Carbon fibre hollow shaft

- Material: CFK composite
- Roundness tolerance: ± 0.05mm
- Diameter tolerance: -0.1mm
- Application temperature: max. +80°C

Order key							
Туре		Dime	ensions [	mm			
CW	/M-	12-	-300				
Carbon fibre shaft	Metric	Outer Ø	Shaft length				

#### Dimensions [mm]

Part No.	Design	Diameter	Max. length	Weight
		-0.1		[g]
CWM-12	Hollow shaft	12/9	2,000	70
CWM-16	Hollow shaft	16/12.5	2,000	120
CWM-20	Hollow shaft	20/16	2,000	170
CWM-30	Hollow shaft	30/26	2,000	270



# drylin<sup>®</sup> linear technology – products made of stainless steel

Temperature resistant up to +250°C

Corrosion-free

Chemical resistance

Ready-to-install linear guides and modules

Lubrication and maintenance-free





